CLAIMS

1. A CD player, comprising:

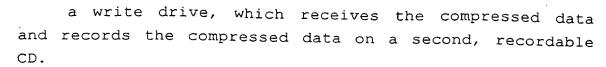
a CD drive, which receives a CD and reads compressed digital audio data recorded thereon; and

an integrated circuit chip, which decompresses the compressed data and produces a non-compressed audio output.

- 2. A CD player according to claim 1, wherein the data are compressed by MPE compression.
- 3. A CD player according to claim 2, wherein the data are compressed by MPEG Layer-3 compression.
- A CD player according to claim 1, wherein the data are compressed at least 4-fold.
- A CD player according to claim A, wherein the data are compressed at least 8-fold.
- The A CD player according to claim the data are compressed approximately 12-fold.
- A CD player according to claim 1, wherein the chip includes firmware for decompressing the data.
- A CD player according to claim 1, wherein the chip comprises a custom integrated circuit chip.
- A CD player according to claim 1, wherein the chip does not comprise a general purpose processor.
- 10. A CD player according to claim 1, wherein the CD player comprises a mobile personal audio player.
- 1. A CD player according to claim %, wherein the CD player is installed in a vehicle.
 - 12. A CD recording system, comprising:
 - a read drive, which receives and reads a first CD having audio data recorded thereon;

compression circultry, which receives and compresses the audio data from the read drive; and

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- 13. A system according to claim 12, wherein the circuitry compresses the data by MPEG compression.
- 14. A system according to claim 13, wherein the circuitry compresses the data by MPEG Layer-3 compression.
- 15. A CD system according to claim 12, wherein the circuitry includes firmware for compressing the data.
- A CD system according to claim 12, wherein the circuitry compresses the data at least 4-fold.
- 17. A CD system according to claim 18, wherein the circuitry compresses the data at least 8-fold.
- 16. A CD system according to claim 17, wherein the circuitry compresses the data approximately 12-fold.
- 19. A method for playing a long-playing audio CD, comprising:

reading compressed digital audio data from the CD; and

decompressing the data using a custom integrated circuit chip; and

converting the decompressed data to analog form.

- 20. A method according to claim 10, wherein decompressing the data comprises decompressing by MPEG decoding.
- 21. A method according to claim 20 wherein decompressing the data comprises decompressing by MPEG Layer-3 decoding.
- 22. A method according to claim 19, wherein decompressing the data comprises decompressing by at least 4-fold.

CD.

28. A method according to claim 22, wherein decompressing the data comprises decompressing by at least 8-fold.

A. A method according to claim 23, wherein decompressing the data comprises decompressing by approximately 12-fold.

26. A method according to claim 16, wherein reading the compressed data comprises playing the CD in a mobile personal audio player.

6. A method according to claim 19, wherein reading the compressed data comprises playing the CD in a CD player installed in a vehicle.

27. A method for producing a long-playing audio CD, comprising:

reading digital audio data from a prerecorded CD; compressing the data using MPEG compression; and recording the compressed data on the long-playing

28. A method according to claim 27, wherein compressing the data comprises compressing by MPEG Layer-3 compression.

A method according to claim 21, wherein compressing the data comprises compressing by at least 4-fold.

30. A method according to claim 28, wherein compressing the data comprises compressing by at least 8-fold.

31. A method according to claim 30, wherein compressing the data comprises compressing by approximately 12-fold.

32. A method according to claim 27, wherein reading the data comprises reading data from a plurality of prerecorded CDs.

38. A method according to claim 32, wherein reading the data comprises inserting each of the plurality of CDs in

sequence into a read drive, in order to read data therefrom.

A method according to claim , wherein recording the data comprises recording data on the long-playing CD in an order that is different from the order of the data on the prerecorded CD.